

Patent Abstracts of Japan

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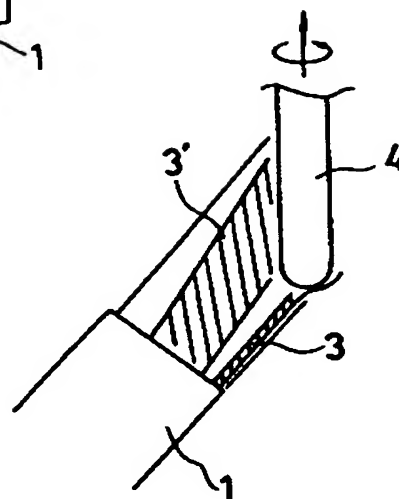
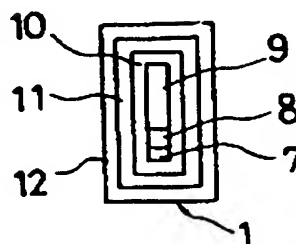
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APPLICANT : FURUKAWA ELECTRIC CO LTD:THE;

INVENTOR : YOSHIDA KAZUAKI;

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TITLE : PRODUCTION OF SOOT ROD FOR
CORE IN OPTICAL FIBER



ABSTRACT : **PURPOSE:** To produce the titled soot rod without causing an abnormally high refractive index in the outer periphery of a core part, by depositing a glass raw material for adjustment formed by the flame hydrolytic reaction on the outer periphery of the soot rod for the core part, and smoothing the distribution of the refractive index in the radial direction.

CONSTITUTION: A glass raw material in the vapor phase containing a doping agent for improving the refractive index is jetted from a blowing outlet 7 of a reaction burner 1 having a multitubular structure of square-shaped cross section, and a gas for adjusting outside diameter is jetted from blowing outlets 8 and 11. An assistant combustible gas is jetted from a blowing outlet 10, and a combustion improver gas is jetted from a blowing outlet 12 to carry out the flame hydrolytic reaction. A glass soot 3 formed by the reaction is then deposited in the form of a rod to form a soot rod 4 for a core part. A glass raw material for adjustment is simultaneously jetted from a blowing outlet 9 to the reaction zone of the glass raw material to cause the flame hydrolytic reaction. A glass soot 3' for the adjustment formed by the flame hydrolytic reaction is then deposited on the soot rod 4.

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